Gasmet

Partial Library of Occupational Health & Safety Gases

for use with Model DX4040, DX4030 (or DX-4015) FTIR multi-component Gas Analyzers

Prepared: Jan 2013

					OEL's [3]		
CAS No.	Gas Name	Chemical Formula	Range (ppm) [1]	Limit (ppm) [2]	TWA	STEL	Ceiling
75-07-0	**Acetaldehyde**	C_2H_4O	0 - 200	0.13	200		
64-19-7	**Acetic Acid**	CH_3COOH	0 - 100	0.04	10		
67-64-1	**Acetone**	CH_3COCH_3	0 - 200	0.07	500	750	
107-02-8	**Acrolein**	C_3H_4O	0 - 200	0.25	0.1		
107-13-1	**Acrylonitrile**	C_3H_3N	0 - 200	0.35	2	10	
7664-41-7	**Ammonia**	NH_3	0 - 50	0.13	25	35	
62-53-3	**Aniline**	C_6H_7N	0 -50	0.06	5		
7784-42-1	**Arsine**	AsH_3	0 - 50	0.02	0.05		
71-43-2	**Benzene**	C_6H_6	0 - 50	0.13	1	5	25
10294-34-5	**Boron Trichloride**	BCl_3	0 -50	0.01			1
106-99-0	**Butadiene-1,3**	C_4H_6	0 - 200	0.20	1	5	
124-38-9	**Carbon Dioxide**	CO_2	0 - 2000	<20	5000		
75-15-0	**Carbon Disulphide**	CS_2	0 -100	0.17	20	30	
630-08-0	**Carbon Monoxide**	CO2	0 - 200	0.25	50	200	
67-66-3	**Chloroform**	$CHCl_3$	0 - 100	0.04			50
76-06-2	**Chloropicrin**	CCl_3NO_2	0 - 20	0.08	0.1		
1319-77-3	**Cresol-m**	C_7H_8O	0 - 50	0.06	5		
98-82-8	**Cumene**	C_9H_{12}	0 - 500	0.05	50		
110-82-7	**Cyclohexane**	C_6H_{12}	0 - 50	0.01	300		
57041-67-5	**Desflurane (Suprane)**	$C_3H_2F_6O$	0 - 50	0.005			
75-35-4	**Dichloroethane-1,1**	$C_2H_4Cl_2$	0 - 200	0.30	100		
156-59-2	**Dichloroethene-cis**	$C_2H_2Cl_2$	0 - 200	0.14			
95-50-1	**Dichlorobenzene-o**	$C_6H_4Cl_2$	0 - 100	0.20			50
106-46-7	**Dichlorobenzene-p**	$C_6H_4Cl_2$	0 - 200	0.68	75		
109-89-7	**Diethylamine**	$C_4H_{11}N$	0 - 200	0.06	25		
60-29-7	**Diethyl ether**	$C_2H_5OC_2H_5$	0 - 50	0.02	400		
127-19-5	**Dimethylacetamide**	C_4H_9NO	0 - 100	0.02	10		
124-40-3	**Dimethylamine**	C_2H_7N	0 - 100	0.09	10		
68-12-2	**Dimethylformamide**	C_3H_7NO	0 - 100	0.10	10		
123-91-1	**Dioxane**	$C_4H_8O_2$	0 - 200	0.03	100		
13838-16-9	**Enflurane**	$C_3H_2ClF_5O$	0 - 20	0.01			
64-17-5	**Ethanol**	CH_3CH_2OH	0 - 200	0.20	1000		
141-43-5	**Ethanolamine**	C_2H_7NO	0 - 200	0.14	3		
141-78-6	**Ethyl acetate**	$C_4H_8O_2$	0 - 50	0.01	400		
100-41-4	**Ethyl Benzene**	C_8H_{10}	0 - 100	0.08	100		
75-00-3	**Ethyl chloride**	C_2H_5Cl	0 - 200	0.21	1000		

Gasmet Technologies Inc.
1410 Taschereau, Suite 202
La Prairie, Qué., J5R 4E8

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CAS No.	Gas Name	Chemical Formula	Range (ppm) [1]	Detection Limit [2]	OEL's [3] TWA	STEL	Ceiling
75-21-8	**Ethylene Oxide (EtO)**	C_2H_4O	0 - 50	0.17	1	5	
50-00-0	**Formaldehyde**	CH_2O	0 - 50	0.09	0.75	2	
64-18-6	**Formic Acid**	HCOOH	0 - 100	0.03	5		
76-13-1	**Freon 113 (CFC-113)**	$C_2F_3Cl_3$	0 - 50	0.02	1000	1250	
76-14-2	**Freon 114 (CFC-114)**	$C_2F_4Cl_2$	0 - 50	0.01			
75-71-8	**Freon 12 (CFC-12)**	CCl_2F_2	0 - 50	0.02	1000		
811-97-2	**Freon 134a (HFC-134A)**	$C_2H_2F_4$	0 - 50	0.01			
1717-00-6	**Freon 141b**	$C_2H_3FCl_2$	0 - 50	0.07	1000	1250	
75-45-6	**Freon 22 (HCFC-22)**	$CHClF_2$	0 - 50	0.01			
111-30-8	**Glutaraldehyde**	$C_5H_8O_2$	0 - 20	0.04	0.2		
151-67-7	**Halothane**	$C_2HBrClF_3$	0 - 50	0.01			
302-01-2	**Hydrazine**	N_2H_4	0 -100		1		
7647-01-0	**Hydrogen Chloride**	HCl	0 - 50	0.20			5
74–90–8	**Hydrogen Cyanide**	HCN	0 - 50	0.35			5
7664-39-3	**Hydrogen Fluoride**	HF	0 - 50	0.30	3		
7722-84-1	**Hydrogen Peroxide**	H_2O_2	0 - 20		1		
78-83-1	**Iso-Butyl Alcohol**	$C_4H_{10}O$	0 - 100	0.05	100		
67-63-0	**Iso-Propyl Alcohol (IPA)**	C_3H_8O	0 - 100	0.06	400	500	
74-82-8	**Methane**	CH_4	0 - 100	0.11			
67-56-1	**Methanol**	CH_3OH	0 - 500	0.13	200		
79-20-9	**Methyl acetate**	$C_3H_6O_2$	0 - 100	0.01	200		
74-83-9	**Methyl bromide**	CH_3Br	0 - 50	0.40	5		20
109-86-4	**Methyl cellosolve**	$C_3H_8O_2$	0 - 100	0.05	25		
110-49-6	**Methyl cellosolve acetate**	$CH_3COOCH_2CH_2OCH_3$	0 - 100	0.01	25		
71-55-6	**Methyl chloroform (TCE)**	$C_2H_3Cl_3$ or CH_3CCl_3	0 - 100	0.07	350		
78-93-3	**Methyl Ethyl Ketone**	$CH_3COC_2H_5$	0 - 200	0.14	200	300	
80-62-6	**Methyl Methacrylate**	$C_5H_8O_2$	0 - 50	0.02	100		
75-09-2	**Methylene chloride**	$C_2H_2Cl_2$	0 - 200	0.10	25	125	
74-89-5	**Methylamine**	CH_5N	0 - 200	0.22	10		
74-93-1	**Methylmercaptan**	CH_4S	0 - 200	0.41			10
10102-44-0	**Nitrogen Dioxide**	NO_2	0 - 50	0.37			5
7783-54-2	**Nitrogen Trifluoride**	NF_3	0 - 50	0.02	10		
10024-97-2	**Nitrous Oxide**	N_2O	0 - 100	0.02	25		
75-44-5	**Phosgene**	CCl_2O	0 - 50	0.02	0.1		
7803-51-2	**Phosphine**	PH_3	0 - 50	0.20	0.3		

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CAS No.	Gas Name	Chemical Formula	Range (ppm) [1]	Detection Limit [2]	OEL's [3] TWA	STEL	Ceiling
71-23-8	**Propanol**	C_3H_8O	0 - 100	0.08	200		
75-56-9	**Propylene Oxide**	C_3H_6O	0 - 100	0.12	20		
110-86-1	**Pyridine**	C_5H_5N	0 - 200	0.36	5		
28523-86-6	**Sevoflurane**	$C_4H_3F_7O$	0 - 50	0.01			
100-42-5	**Styrene**	C_8H_8	0 - 200	0.16	100		
2699-79-8	**Sulfuryl Fluoride**	SO_2F_2	0 - 50	0.03	5		
05/09/7446	**Sulphur Dioxide**	SO_2	0 - 100	0.03	2	5	
2551-62-4	**Sulphur Hexafluoride**	SF_6	0 - 50	0.004			
127-18-4	**Tetrachloroethylene (Perc)**	C_2Cl_4	0 - 50	0.03	100		
109-99-9	**Tetrahydrofuran**	C_4H_8O	0 - 100	0.07	200		
108-88-3	**Toluene**	C_7H_8 ($C_6H_5CH_3$)	0 - 200	0.13	200		
79-01-6	**Trichloroethylene**	C_2HCl_3	0 - 100	0.08	100		
526-73-8	**Trimethylbenzene (1,2,3)**	C_9H_{12}	0 - 100	0.10	25		
108-05-4	**Vinyl acetate**	$C_4H_6O_2$	0 - 50	0.01	10	15	
75-01-4	**Vinyl chloride**	CH_2CHCl	0 - 200	0.34	1	5	
75-35-4	**Vinylidene chloride**	$C_2H_2Cl_2$	0 - 100	0.12	5	20	
7732-18-5	**Water Vapour**	H_2O	0 - 3 %	<100			
106-42-3	**Xylene-p**	C_8H_{10}	0 - 100	0.10	100	150	

EO&E

Notes :
1. Measurement range - Typical recommended range however can be modified for site specific conditions
2. Theoretical Lower Limit Detection based on 60s measurement time, one component in Nitrogen, detection limit defined as 3x stdev(noise)
3. OEL's : Occupational Exposure Limits - Data per OSHA or NIOSH or ACGIH
4. Detection limits in general are application specific and this list should only be used as a guide.
We strongly recommend that you contact Gasmet or your local representative to verify instrument perfromance for your specific application.

To contact Gasmet Technologies (www.gasmet.com)
e-mail : sales@gasmet.com
Telephone : 1-866-685.0050